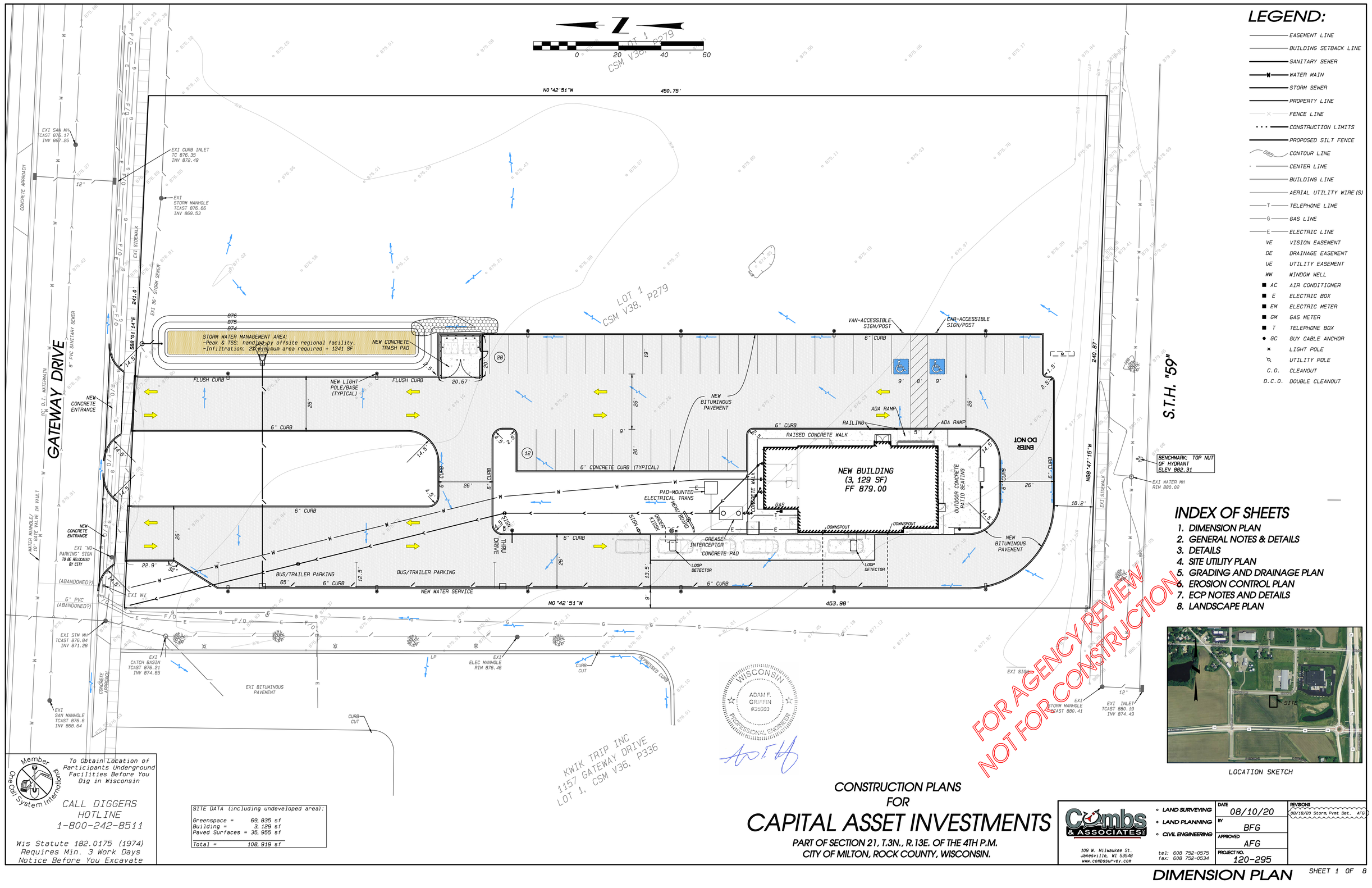


LEGEND:

- EASEMENT LINE
- BUILDING SETBACK LINE
- SANITARY SEWER
- WATER MAIN
- STORM SEWER
- PROPERTY LINE
- FENCE LINE
- CONSTRUCTION LIMITS
- PROPOSED SILT FENCE
- CONTOUR LINE
- CENTER LINE
- BUILDING LINE
- AERIAL UTILITY WIRE (S)
- TELEPHONE LINE
- GAS LINE
- ELECTRIC LINE
- VE VISION EASEMENT
- DE DRAINAGE EASEMENT
- UE UTILITY EASEMENT
- WW WINDOW WELL
- AC AIR CONDITIONER
- E ELECTRIC BOX
- EM ELECTRIC METER
- GM GAS METER
- T TELEPHONE BOX
- GC GUY CABLE ANCHOR
- LIGHT POLE
- UTILITY POLE
- C.O. CLEANOUT
- D.C.O. DOUBLE CLEANOUT

INDEX OF SHEETS

LOCATION SKETCH

FOR AGENCY REVIEW
NOT FOR CONSTRUCTION

WISCONSIN
ADAM F. GRIFFIN
#35680
PROFESSIONAL ENGINEER

KWIK TRIP INC
1157 GATEWAY DRIVE
LOT 1, CSM V36, P336

Member One Call System International

To Obtain Location of Participants Underground Facilities Before You Dig in Wisconsin

CALL DIGGERS HOTLINE
1-800-242-8511

Wis Statute 182.0175 (1974) Requires Min. 3 Work Days Notice Before You Excavate

SITE DATA (including undeveloped area):	
Greenspace =	69,835 sf
Building =	3,129 sf
Paved Surfaces =	35,955 sf
Total =	108,919 sf

CONSTRUCTION PLANS
FOR

CAPITAL ASSET INVESTMENTS

PART OF SECTION 21, T.3N., R.13E. OF THE 4TH P.M.
CITY OF MILTON, ROCK COUNTY, WISCONSIN.

Combs & ASSOCIATES
109 W. Milwaukee St.
Janesville, WI 53548
www.combssurvey.com
tel: 608 752-0575
fax: 608 752-0534

- LAND SURVEYING
- LAND PLANNING
- CIVIL ENGINEERING

DATE	08/10/20
BY	BFG
APPROVED	AFG
PROJECT NO.	120-295

REVISIONS
08/18/20 Storm, Pvmt Det. AFG

DIMENSION PLAN

GENERAL NOTES

All pavement construction shall be in conformance with the typical cross section shown on the plans and in conformance with the State of Wisconsin Department of Transportation "Standard Specifications for Road and Bridge Construction",

All work shall be in accordance with City of Milton Standards.

The contractor shall clear, grub, and dispose of all brush, stumps, trees, etc., within the construction limits of the subject property and within the construction limits of all sewer and water main construction. Contractor shall remove those materials from the work site and dispose of them at the contractor's option and in conformance with State and local regulations.

Contractor shall verify location of any existing utilities prior to excavation. Call Digger's Hotline before digging (1 800 242-8511).

Contractor shall backfill any utilities in structural areas using appropriate granular backfill.

Permits shall be obtained for any street openings.

All work shall be in accordance with "Wisconsin Construction Site Best Management Practices Handbook", latest edition.

Contractor shall notify the City of Milton 48 hours prior to start of construction.

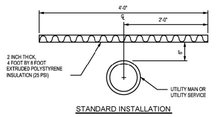
Contractor shall ensure drive approaches shall be in accordance with City of Milton specifications (unless changes are approved by the City).

SITE SPECIFIC NOTES

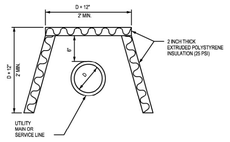
All construction debris must be removed from site. In no instance shall debris be buried on-site.

Contractor shall verify all public & private utilities are installed prior to laying gravel.

Contractor shall provide unit prices to owner at time of bid for removal and replacement of unsuitable material under structures and traffic areas as approved by owner.



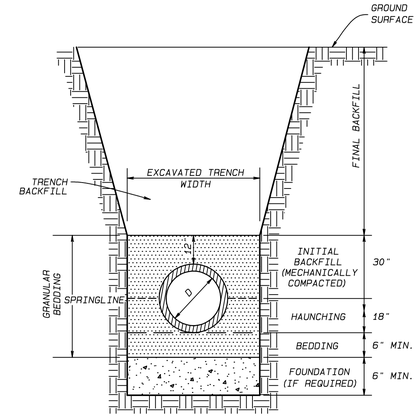
STANDARD INSTALLATION



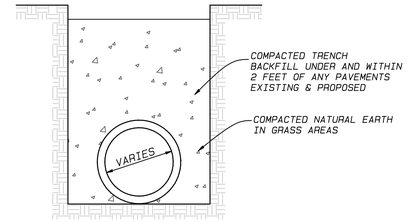
SIDE PROTECTION INSTALLATION

GENERAL NOTES:
1. THE SIDE PROTECTION INSTALLATION SHALL BE USED WHERE FROST WILL PENETRATE BELOW THE PIPE INVERT.

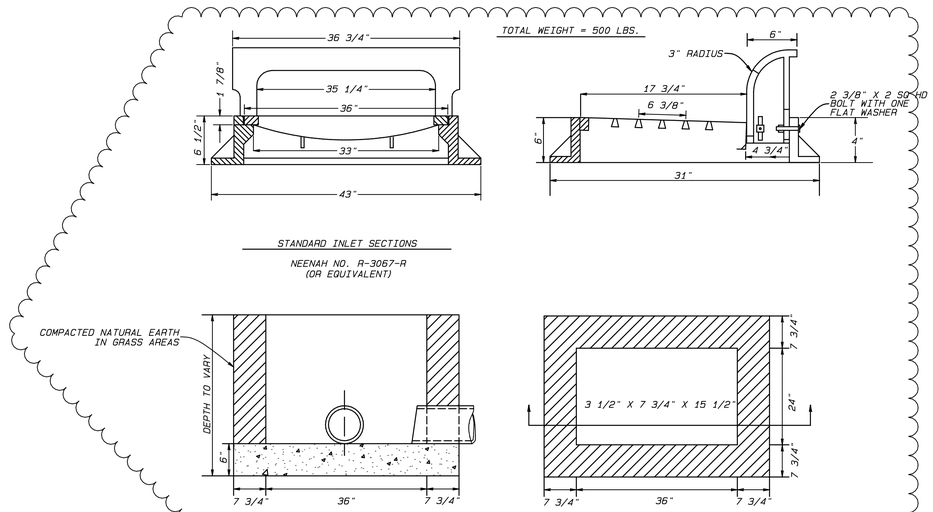
PIPE INSULATION DETAIL
SCALE: NONE



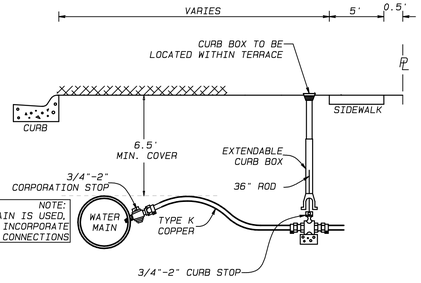
WATERMAIN PIPE EMBEDMENT DETAIL



RCCP STORM PIPE BEDDING-TRENCH BACKFILL

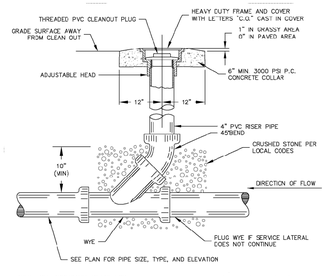


STANDARD INLET BOX DETAILS FOR INLET (TYPE 700)



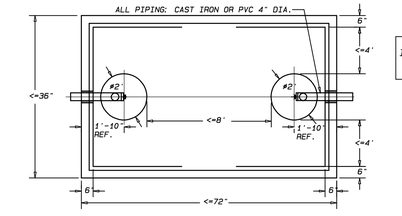
(PROFILE VIEW)

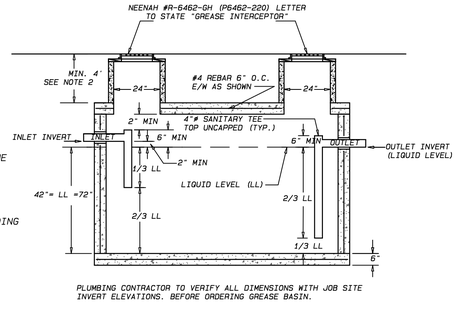
WATER SERVICE DETAIL



NOTE: SEE APPLICABLE DETAIL FOR BACKFILL AND BEDDING INSTRUCTIONS.

CLEANOUT FOR SANITARY SERVICE DETAIL
NO SCALE

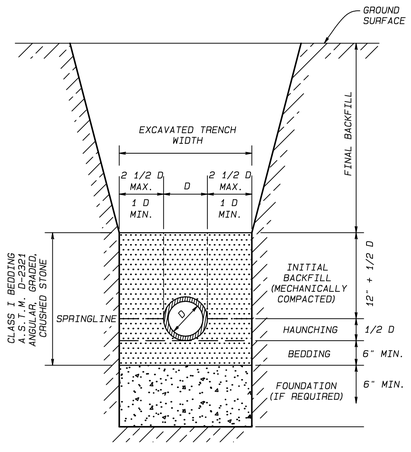




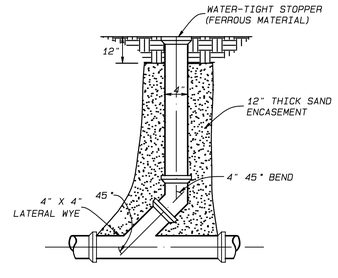
PLUMBING CONTRACTOR TO VERIFY ALL DIMENSIONS WITH JOB SITE INVERT ELEVATIONS. BEFORE ORDERING GREASE BASIN.

1,500 GALLON GREASE BASIN DETAIL

SCALE : NONE



SANITARY PIPE EMBEDMENT DETAIL



CLEANOUT DETAIL

GREASE INTERCEPTOR CALC.

C = S x H x A WHERE

S = NUMBER OF SEATS, WITH EACH DRIVE-IN CAR SERVICE SPACE COUNTING AS 3 SEATS AND EACH DRIVE-UP SERVICE WINDOW COUNTING AS 60 SEATS.

H = HOURS PER DAY THAT MEALS ARE SERVED, AT LEAST 6 HOURS BUT NOT MORE THAN 12 HOURS.

A = APPLIANCE FACTOR:
0.75 FOR A KITCHEN WITH NO DISHWASHING MACHINE AND NO FOOD WASTE GRINDER.
1.0 FOR A KITCHEN WITH EITHER A DISHWASHING MACHINE OR A FOOD WASTE GRINDER.
1.25 FOR A KITCHEN WITH BOTH A DISHWASHING MACHINE AND A FOOD WASTE GRINDER

THIS PROJECT:
S = 156 (96 SEATS, 60 SEATS DRIVE-THRU)
H = 12 HOURS
A = 0.75
C = 1,404
ALL PAPER SERVICE (SIZE MAY BE HALVED) 1,404/2 = 702
MINIMUM 750 GALLON REQUIRED (DISCH. TO MUNICIPAL SEWER)

EXTERIOR GREASE INTERCEPTOR NOTES:

1. THE TANK MUST COMPLY WITH PARTS 5 & 6 OF ASTM STANDARD c1613. THE NAME OF THE TANK MANUFACTURER, THE LIQUID HOLDING CAPACITY, AND COMPLIANCE WITH ASTM c1613 FOR TANK CONSTRUCTION MUST BE PERMANENTLY AFFIXED TO THE TANK.
2. THE INTERCEPTOR MUST BE PROTECTED FROM FREEZING BASED ON INSTALLATION DEPTH AND SOIL TYPE PER WISCONSIN ADMINISTRATIVE CODE SPS 382.30(11)(c). THE LANDSCAPE MUST BE BERMED TO DIVERT RUN-OFF. THE TANK MUST BE PROTECTED TO PREVENT LOADING THAT MAY LEAD TO STRUCTURAL COLLAPSE.
3. THE TANK MUST BE READILY ACCESSIBLE FOR INSPECTION AND MAINTENANCE.
4. THE MATERIAL USED IN PIPING TO THE INLET OF THE TANK MUST COMPLY WITH BUILDING DRAIN REQUIREMENTS. THE TANK OUTLET PIPING MAY COMPLY WITH BUILDING SEWER MATERIALS, UNLESS THE OUTLET PIPING REENTERS THE BUILDING. IN SUCH CASES, MATERIALS SHALL BE APPROVED FOR BUILDING DRAIN. THE INLET AND OUTLET PIPES MUST BE CONNECTED TO THE TANK WITH A SEALED FLEXIBLE JOINT TO ACCOMMODATE PIPE MOVEMENT. A CLEANOUT MUST PROVIDED ON THE DISCHARGE LINE FROM THE INTERCEPTOR.
5. THE TANK AND BAFFLE DESIGN MUST ALLOW FOR CONTINUOUS CIRCULATION OF AIR THROUGHOUT THE TANK. PROVIDE 2"Ø VENT INTO BUILDING - SEE PLUMBING PLANS.
6. INSPECTION PIPES LOCATED ABOVE THE BAFFLES/TEES AND A MANHOLE MUST BE PROVIDED. THE MANHOLE COVER MUST BE LOCKED IN PLACE; MARKED WITH WARNING TO NOT ENTER WITHOUT PROPER EQUIPMENT; AND TO BE PROVIDED WITH A LABEL IDENTIFYING THE VESSEL AS THE EXTERIOR GREASE INTERCEPTOR.
7. AFTER INSTALLATION, THE TANK MUST PASS A MANOMETER TEST WITH 1 INCH OF WATER COLUMN FOR 5 MINUTES, OR A VACUUM TEST WITH 2 INCHES OF MERCURY FOR 60 MINUTES. THE GREASE INTERCEPTOR MUST BE INSPECTED AT LEAST ONCE EVERY 3 MONTHS, AND MUST BE PUMPED AND CLEANED REGULARLY. THE RECORDS OF THE INSPECTION MUST BE KEPT FOR AT LEAST 3 YEARS.
8. INTERCEPTORS LOCATED IN TRAFFIC AREAS SHALL BE DESIGNED TO WITHSTAND AN AASHTO-H20-44 WHEEL LOAD.

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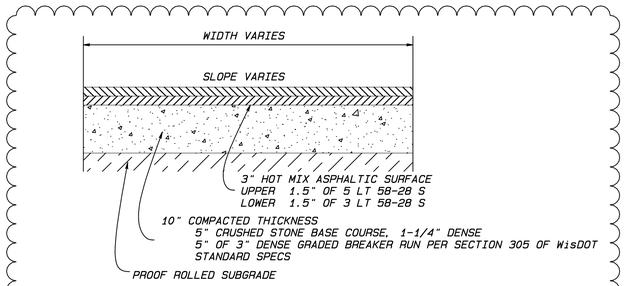
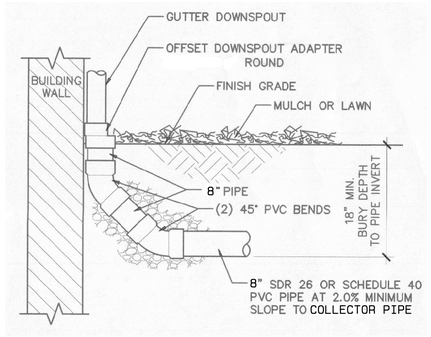
DATE	REVISIONS
08/10/20	08/18/20 Storm, Pvmt Det. AFG
BY: BFG	
APPROVED: AFG	
PROJECT NO.: 120-295	

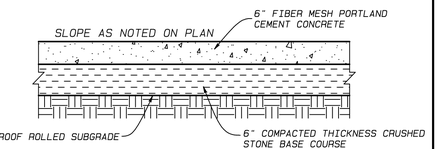
GENERAL NOTES AND DETAILS



STANDARD DUTY BITUMINOUS PAVEMENT

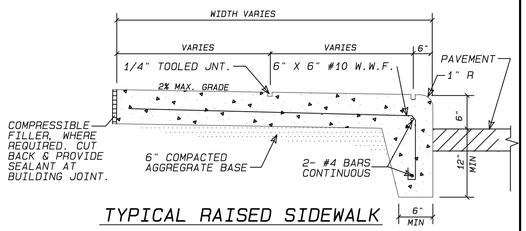


DOWNSPOUT CONNECTION TO COLLECTOR PIPE DETAIL



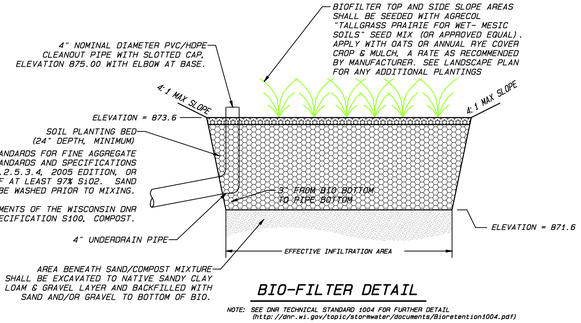
DUMPSTER PAD: INSTALL CONTROL JOINTS AT 7' +/- INTERVALS

CONCRETE PAVEMENT & DUMPSTER PAD



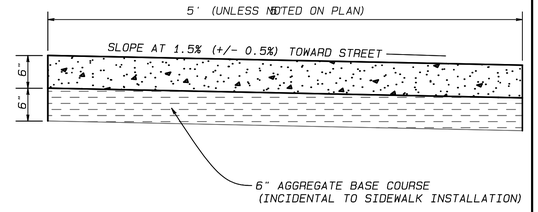
TYPICAL RAISED SIDEWALK

N.T.S.



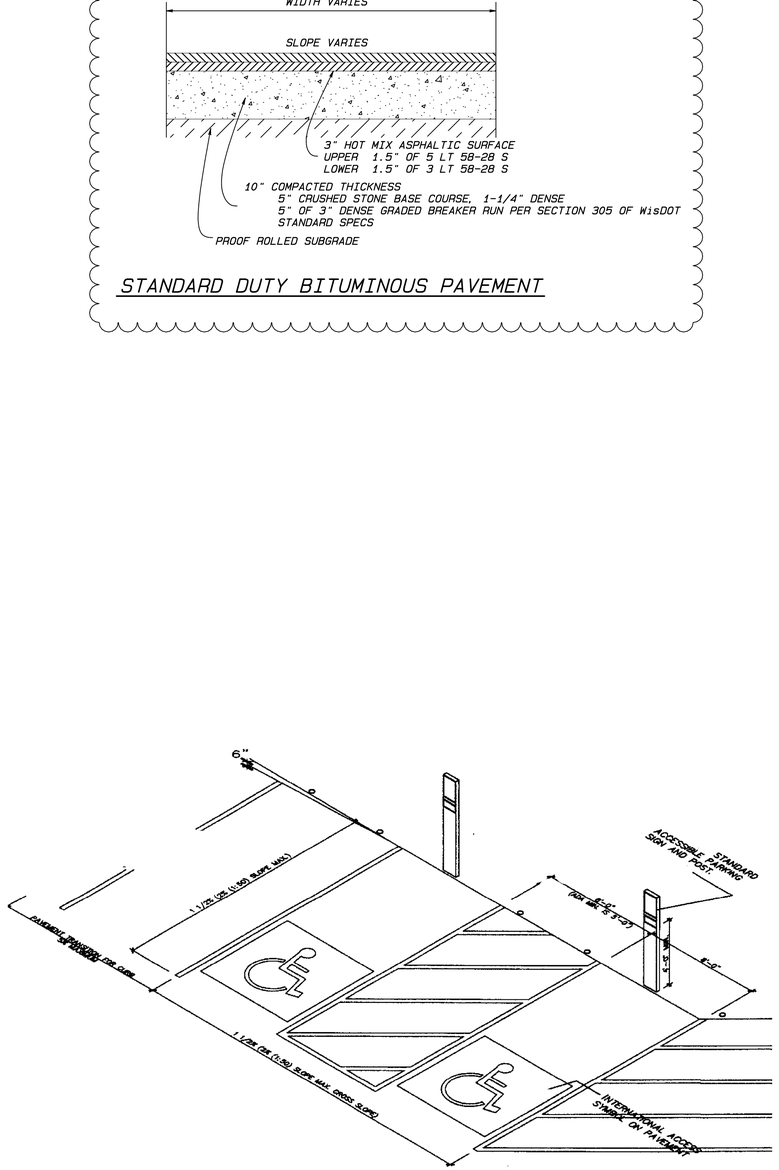
BIO-FILTER DETAIL

NOTE: SEE DNR TECHNICAL STANDARD 1004 FOR FURTHER DETAIL (http://dnr.wi.gov/topic/stormwater/documents/Bioretention1004.pdf)



CONCRETE WALK DETAIL (THROUGH DRIVEWAYS)

INSTALL 3/4" EXPANSION JOINTS WHERE WALK ABUTS CURB, BUILDING OR WALL.
INSTALL CONTROL JOINTS AT 5' INTERVALS



STANDARD ACCESSIBLE DIMENSIONING

A U.S. DEPARTMENT OF TRANSPORTATION R7-8 (RESERVED PARKING) AND SUPPLEMENTAL SIGNS AS NOTED ABOVE MUST BE MOUNTED ON A PERMANENT POST NO LOWER THAN 4' FROM THE PAVEMENT. THE POST MUST BE MOUNTED IN THE CENTER OF THE 8 FOOT WIDE ACCESSIBLE PARKING SPACE, NO MORE THAN 5 FEET FROM THE FRONT OF THE PARKING SPACE. SEE ILLUSTRATION ABOVE.

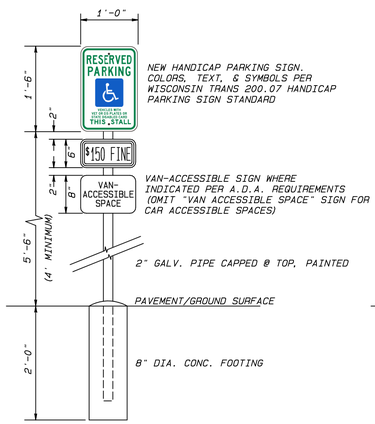
NOTES:
EACH ACCESSIBLE PARKING SPACE IS TO BE A MINIMUM OF 8 FEET WIDE AND HAVE A 96" MINIMUM ACCESS AISLE FOR VANS OR 60" ACCESS AISLE FOR CARS ADJACENT TO THE SPACE. THE ACCESS AISLE MAY BE ON EITHER THE DRIVER'S SIDE OR THE PASSENGER'S SIDE OF THE ACCESSIBLE SPACE. THIS APPLIES TO 45, 60, AND 90°PARKING.

ACCESSIBLE PARKING SPACES ARE TO BE LOCATED AS CLOSE TO THE STORE ENTRANCE AS POSSIBLE AND SHALL BE IDENTIFIED WITH A SIGN.

ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL BE LEVEL WITH A SLOPE OF 1 1/2% (2% MAXIMUM)(EXAMPLE: 1.92 INCHES MAX. VERTICAL IN 8 FEET HORIZONTAL) OR 1:50 IN ALL DIRECTIONS. THIS INCLUDES BOTH "RUNNING SLOPES" AND "CROSS SLOPES."

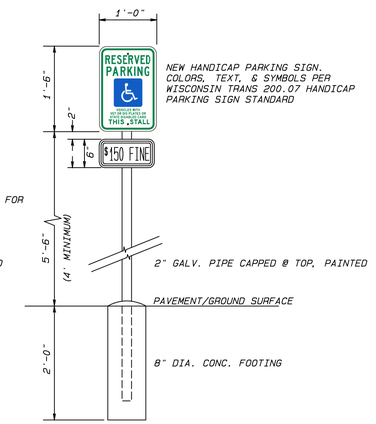
THE ACCESS AISLE SHALL BE DESIGNATED WITH HIGH QUALITY YELLOW DIAGONAL SURFACE PAINT STRIPING.

ADA ALLOWS TWO PARKING SPACES TO SHARE AN ACCESS AISLE.



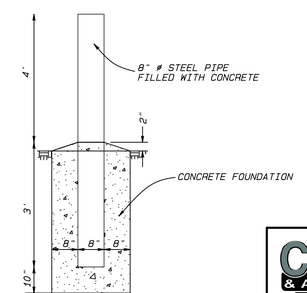
VAN ACCESSIBLE HANDICAP PARKING SIGN DETAIL

(OR APPROVED EQUAL)

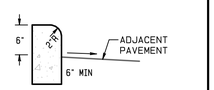


CAR ACCESSIBLE HANDICAP PARKING SIGN DETAIL

(OR APPROVED EQUAL)



BOLLARD DETAIL



6" CONCRETE CURB

NOTE:
SAW 1/8" WIDE X 2" WIDE DEEP & FILL OR VINYL STRIP FOR CONTRACTION JOINT AT 25' INTERVALS THRU CURB.

NOTE:
3/4" PREMOLDED EXPANSION JOINT AT RADIUS RETURNS, STRUCTURES & 100' MAXIMUM SPACING.

Combs & Associates LLC
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N

0 20

EXI SAN MH
TCAST 876.17
INV 867.25

EXI CURB INLET
TC 876.35
INV 872.49

EXI
STORM MANHOLE
TCAST 876.66
INV 869.53

CONSTRUCT NEW 5'ø STORM MH
OVER EXI 36" STORM
RIM 877.08
4" INV 871.90
36" INV 870.63 (FIELD VERIFY)

9 LnFT OF 4"ø
HDPE STORM SEWER
@ 1.0% MINIMUM

4" STANDPIPE
RIM 875.00
INV 872.25
(SEE BIO-FILTER DETAIL)

1,250 SF BIO-FILTER
TOP 873.6
BOTTOM 871.6
(SEE DETAIL)

INSTALL LIGHT
RIP-RAP AT
DISCHARGE

15" FIRE END
INV 873.60

INLET NOW
REMOVED

REPLACE WALK IN KIND,
AS NECESSARY TO INSTALL
STORM MANHOLE

EXI "NO
PARKING" SIGN
TO BE RELOCATED
BY CITY

(ABANDONED?)

6" PVC
(ABANDONED?)

EXI STM MH
TCAST 876.84
INV 871.28

EXI
CATCH BASIN
TCAST 876.21
INV 874.65

EXI
SAN MANHOLE
TCAST 876.6
INV 868.64

EXI BITUMINOUS
PAVEMENT

CONCRETE APPROACH

EXI SIDEWALK

8" PVC SANITARY SEWER

10" D.I. WATERMAIN

5' STORM MANHOLE

WATER MANHOLE/
10" GATE VALVE IN VAULT

EXI WV

CONNECT NEW WATER SERVICE
TO EXISTING STUB (FIELD
VERIFY LOCATION)

CONNECT NEW 4" SAN SERVICE
TO EXISTING 6" STUB WITH
REDUCER FITTING. (FIELD
VERIFY LOCATION)

1.5"ø POLY (DOMESTIC)
WATER SERVICE (WITH TRACER WIRE, 5|5' MINIMUM BURY)

NEW 4" SDR 35 PVC SANITARY SERVICE @ 1.0% (MINIMUM)

TRAFFIC RATED
SANITARY CLEANOUT
(SEE DETAIL)

SANITARY
CLEANOUT

109 LnFt OF 12" HDPE STORM SEWER PIPE
HDPE STORM SEWER @ 0.30%

CURB INLET 2
TC 876.93
INV 873.93

113 LnFt OF 12" HDPE STORM SEWER @ 0.30%

CURB INLET 1
TC 877.00
INV 874.27

181 LnFt OF 8" HDPE STORM SEWER @ 0.30%

THRU DRIVE

LP

EXI
ELEC MANHOLE
RIM 876.46

CURB
CUT

DEPRESSED CURB

CURB
CUT

SEE PLUMBING PLAN
FOR DOUBLE CLEANOUT

4"ø SANITARY GREASE SERVICE.
SEE PLUMBING PLAN FOR CONTINUATION

NEW 1.5" POLY (DOMESTIC) WATER
SERVICE (WITH TRACER WIRE), VERIFY
LOCATION & SIZE WITH PLUMBING PLAN

4"ø SANITARY SERVICE.
SEE PLUMBING PLAN FOR
CONTINUATION

SEE PLUMBING PLAN
FOR DOUBLE CLEANOUT

NEW BUILDING
FF 879.00

HOSE
BIB

COORDINATE ELEC
LINE ROUTING WITH
UTILITY COMPANY

NEW 4" SDR 35 PVC SANITARY
SERVICE @ 1.0% MINIMUM

PAD-MOUNTED ELECTRICAL TRANSFORMER,
FIELD VERIFY LOCATION & ROUTING WITH
ELECTRIC UTILITY

SEE DETAIL FOR
GREASE TRAP

COORDINATE TELEPHONE
LINE ROUTING WITH
UTILITY COMPANY

COORDINATE GAS
LINE ROUTING WITH
UTILITY COMPANY

SEE ELECTRICAL PLAN
FOR LOOP DETECTOR
DETAIL

SEE DETAIL FOR 8" PVC CONNECTION
TO STORM COLLECTOR PIPE

BEND FITTING
INV 874.81

DO NOT
ENTER

BENCHMARK: TOP NUT
OF HYDRANT
ELEV 882.31

EXI WATER MH
RIM 880.02

EXI SIGN

EXI
STORM MANHOLE
TCAST 880.41

12"

EXI INLET
TCAST 880.19
INV 874.49

Combs & ASSOCIATES LLC

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- LAND SURVEYING
- LAND PLANNING
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REVISIONS
08/18/20 Storm, Pvmt Det. AFG

SITE UTILITY PLAN

N

0 20

GATEWAY DRIVE

S.T.H. "59"

EXI SAN MH
TCAST 878.17
INV 867.25

EXI CURB INLET
TC 876.35
INV 872.49

EXI
STORM MANHOLE
TCAST 876.66
INV 869.53

CONCRETE APPROACH

EXI SIDEWALK

EXI 36" STORM SEWER

8" PVC SANITARY SEWER

10" D.I. WATERMAIN

WATER MANHOLE
GATE VALVE IN VAULT

5' STORM MANHOLE

EMERGENCY OVERFLOW

INSTALL LIGHT RIP-RAP ALONG FLOW ROUTE

36" WIDE DEPRESSED CURB SPILLOUT

TAPER CURB

FLUSH CURB

6" CURB

EPOXY PAINTED LANE ARROW (TYPICAL)

4" YELLOW EPOXY STALL STRIPING (TYPICAL)

ADA STALLS NOT TO EXCEED 2.0% IN ANY DIRECTION

EPOXY PAINTED INTERNATIONAL ACCESS SYMBOL - TYPICAL (SEE DETAIL)

NEW BUILDING
FF 879.00

DO NOT ENTER

THRU DRIVE

FILL & GRADE AREA TO DRAIN TO CURB

EXI "NO PARKING" SIGN TO BE RELOCATED BY CITY

(ABANDONED?)

6" PVC (ABANDONED?)

EXI WV

EXI STM MH
TCAST 876.84
INV 871.28

EXI
CATCH BASIN
TCAST 876.21
INV 874.65

EXI
ELEC MANHOLE
RIM 876.46

CURB CUT

DEPRESSED CURB

EXI BITUMINOUS PAVEMENT

CONCRETE APPROACH

EXI
SAN MANHOLE
TCAST 876.6
INV 868.64

EXI SIGN

EXI SIDEWALK

BENCHMARK: TOP NUT OF HYDRANT
ELEV 882.31

EXI WATER MH
RIM 880.02

EXI
STORM MANHOLE
TCAST 880.41

EXI INLET
TCAST 880.19
INV 874.49

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- LAND PLANNING
- CIVIL ENGINEERING

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DATE	REVISIONS
08/10/20	08/18/20 Storm, Pvmt Det. AFG
BY	
BFG	
APPROVED	
AFG	
PROJECT NO.	
120-295	

SITE GRADING AND DRAINAGE PLAN

INLET PROTECTION (TYPE "C" (SEE DETAIL)

ANY CONSTRUCTION DEBRIS/MUD TRACKED ON TO PUBLIC STREET SHALL BE REMOVED NIGHTLY

SILT FENCE (TEMPORARY)

STONE TRACKING PAD (SEE DETAIL)

876
875
874

NEW BUILDING
FF 879.00

THRU DRIVE

DO NOT ENTER

INLET PROTECTION

INLET PROTECTION

N

0 20

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EROSION CONTROL PLAN

GENERAL EROSION NOTES

A. THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS COMPRISED OF THIS DRAWING, THE EROSION CONTROL DETAILS, THE NOI PERMIT, SUBSEQUENT REPORTS AND RELATED DOCUMENTS.

B. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE SWPPP AND THE STATE OF WISCONSIN NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (NPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.

C. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES (BMP's) AS REQUIRED BY THE SWPPP. ADDITIONAL BMP's SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST OF THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.

D. BEST MANAGEMENT PRACTICES AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS, OR MANUAL OF PRACTICE, AS APPLICABLE. CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.

E. THE SITE MAP MUST CLEARLY DELINEATE ALL STATE WATERS AND PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS, AND MUST BE MAINTAINED ON-SITE AT ALL TIMES.

F. CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICABLE OR AS REQUIRED BY THE GENERAL PERMIT.

G. GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.

H. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.

I. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOATATION BOOMS SHALL BE MAINTAINED ON-SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN UP FUEL OR CHEMICAL SPILLS AND LEAKS.

J. DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.

K. RUBBISH, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.

L. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THIS PLAN, AND IN THE SWPPP SHALL BE INITIATED AS SOON AS PRACTICABLE.

M. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS STOPPED FOR AT LEAST 14 DAYS SHALL BE TEMPORARILY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS.

N. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANDSCAPING PLAN.

O. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.

P. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

Q. CONTRACTORS OR SUBCONTRACTORS SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE DETENTION PONDS AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.

R. ON-SITE & OFF-SITE SOIL STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.

S. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.

T. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, STRAW BALES, ETC.) TO PREVENT EROSION.

U. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY. THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.

EROSION CONTROL PLAN NOTES:

1. PHASED CONSTRUCTION / STABILIZATION

TO ENSURE THAT DISTURBED AREAS ARE NOT VULNERABLE TO EROSION FOR EXTENDED PERIODS, THE SITE NEEDS TO BE BROKEN INTO ZONES OF LAND DISTURBANCE.

WITHIN EACH ZONE, STABILIZE (E.G., SEED & MULCH, COMPOST, EROSION MAT, POLYMER) ALL DISTURBED AREAS OUTSIDE OF STREET RIGHT-OF-WAY BEFORE BREAKING GROUND IN THE NEXT ZONE. STABILIZATION SHALL OCCUR WITHIN 30 DAYS OF INITIAL GROUNDBREAKING OR WITHIN 7 DAYS OF ACHIEVING FINAL GRADE, WHICH EVER OCCURS FIRST.

MULCH AS PART OF A STABILIZATION MEASURE SHALL BE APPLIED TO PRODUCE A CONTINUOUS COVER OF MULCH AND SHALL BE ANCHORED AT A RATE OF 2 TONS PER ACRE. IN ALL CASES, THE MULCH MUST BE ANCHORED INTO THE SOIL BY DISCING.

2. CONSTRUCTION ENTRANCES/EXITS

CONTRACTOR SHALL PROVIDE A STONE TRACKING PAD AT THE POINT(S) OF ACCESS AS SHOWN ON THE PLANS. INSTALL ACCORDING TO WDNR STANDARD 1057. REFER TO WDNR'S WEB PAGE OF TECHNICAL STANDARDS AT:
http://dnr.wi.gov/org/water/wm/nps/stormwater/techstds.htm#Construction

3. WATER PROVISION

FOR THE FIRST SIX WEEKS AFTER INITIAL STABILIZATION (E.G., SEED & MULCH, EROSION MAT, SOD) OF A DISTURBED AREA, PROVISION SHALL BE MADE FOR WATERING WHENEVER MORE THAN 7 DAYS OF DRY WEATHER ELAPSE.

4. TEMPORARY STABILIZATION USING ANIONIC POLYMER

ANIONIC POLYACRYLAMIDE WILL BE APPLIED TO ALL DISTURBED AREAS WHERE THE VILLAGE ENGINEER OR WDNR REPRESENTATIVES DEEM STABILIZATION AND/OR EROSION TO BE PROBLEMATIC. APPLICATION OF POLYACRYLAMIDE WILL BE ACCORDING TO WDNR CONSERVATION PRACTICE STANDARD 1050, EROSION CONTROL LAND APPLICATION OF ANIONIC POLYACRYLAMIDE. REFER TO WDNR'S STORMWATER WEB PAGE OF TECHICAL STANDARDS AT:
http://dnr.wi.gov/org/water/wm/nps/stormwater/techstds.htm

5. DEEP TILLING

FOLLOWING ROUGH GRADING, DEEP TILLING (A.K.A. SUBSOILING) WILL BE PERFORMED ON ALL GRADED AREAS OUTSIDE THE FOOTPRINT OF STREET FOOTPRINTS. THE OPERATION SHALL BE ACCOMPLISHED USING TWIN STRAIGHT STEEL SHANKS DRAWN BY TRACKED MACHINERY. EACH SHANK SHALL BE 24 TO 36 INCHES LONG, POSITIONED OVER THE TRACTOR TRACKS, AND SPACED 4 TO 5 FEET APART. DEEP TILLING SHALL BE DONE ON DRY SOIL AND ACROSS THE SLOPE. REFER TO THE DANE COUNTY EROSION CONTROL AND STORMWATER MANAGEMENT MANUAL, APPENDIX I.D.1, WHICH IS ACCESSIBLE FROM THE DANE COUNTY LAKES AND WATERSHED COMMISSION WEB SITE AT:
http://www.countyofdane.com/lwrd/lakes/stormwatermanual.shtml

6. SOIL STOCKPILES

A ROW OF SILT FENCE PLACED DOWNSLOPE AND AT LEAST 10 FEET AWAY FROM SOIL STOCKPILES SHALL PROTECT ALL STOCKPILES. SOIL STOCKPILES THAT ARE INACTIVE FOR MORE THAN 14 CONSECUTIVE DAYS SHALL BE STABILIZED WITH SEED & MULCH, EROSION MAT, POLYMER, OR COVERED WITH TARPS OR SIMILAR MATERIAL.

7. DEWATERING

WATER PUMPED FROM THE SITE SHALL BE TREATED BY USING A TEMPORARY SEDIMENTATION BASIN, PORTABLE DEWATERING BASIN OR AN EQUIVALENT DEVICE.

ANY INDIVIDUAL SEDIMENTATION BASIN SHALL HAVE A DEPTH OF AT LEAST 3 FEET AND PROVIDE A MAXIMUM SURFACE SETTLING RATE OF 1500 GALLONS PER SQUARE FOOT PER DAY.

THIS WATER SHALL BE DISCHARGED IN A MANNER THAT DOES NOT INDUCE EROSION OF THE SITE OR ADJACENT PROPERTY.

8. STORM SEWER INLETS

PROVIDE WDOT TYPE D "CATCHALL" INLET PROTECTION OR EQUIVALENT. REFER TO WDOT PRODUCT ACCEPTABILITY LIST AT: http://www.dot.wisconsin.gov/business/engrserv/pal.htm. INLET PROTECTION SHALL BE INSTALLED PRIOR TO THE STORM SEWER SYSTEM RECEIVING SITE RUNOFF. OTHER THAN FOR PERFORMING MAINTENANCE, THESE DEVICES SHALL NOT BE REMOVED UNTIL FLAT-LEVEL STABILIZATION IS COMPLETE.

9. INSPECTIONS

ALL EROSION CONTROL MEASURES AND STRUCTURES SERVING THE SITE MUST BE INSPECTED AT LEAST WEEKLY AND WHENEVER 0.5 INCHES OF RAIN OR MORE IS PRODUCED WITHIN 24 HOURS. ALL NECESSARY MAINTENANCE SHOULD FOLLOW THE INSPECTIONS WITHIN 24 HOURS.

10. PONDS

THE STORM WATER PONDS SHALL BE CONSTRUCTED TO ALLOW SEDIMENTATION WITHIN THE POND DURING CONSTRUCTION (EXCLUDING BIO-FILTERS), AND THE CLEANING OF THE POND FROM ACCUMULATED SEDIMENT AT THE COMPLETION OF CONSTRUCTION.

MAINTENANCE

ALL MEASURES STATED ON THIS EROSION AND SEDIMENT CONTROL PLAN, AND IN SWPPP SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON IN ACCORDANCE WITH THE CONTRACT DOCUMENTS OR THE APPLICABLE PERMIT, WHICHEVER IS MORE STRINGENT, AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:

1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETERIORATION.

2. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEEDED AS NEEDED.

3. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-HALF THE HEIGHT OF THE SILT FENCE.

4. THE CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH SHALL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCE AS CONDITIONS DEMAND.

5. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.

6. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED.

CONSTRUCTION SEQUENCE:

PHASE 1

1. Install construction entrance/exit(s).
2. Prepare temporary parking and equipment storage area.
3. Install silt fencing where indicated.
4. Construct the vegetated infiltration swales & corresponding silt fencing.

HALT ALL ACTIVITIES AND CONTACT THE CIVIL ENGINEERING CONSULTANT TO PERFORM AN INSPECTION OF BEST MANAGEMENT PRACTICES (BMP's). GENERAL CONTRACTOR SHALL SCHEDULE AND CONDUCT A STORM WATER PRE-CONSTRUCTION MEETING WITH ENGINEER AND ALL GROUND DISTURBING CONTRACTORS BEFORE PROCEEDING WITH CONSTRUCTION.

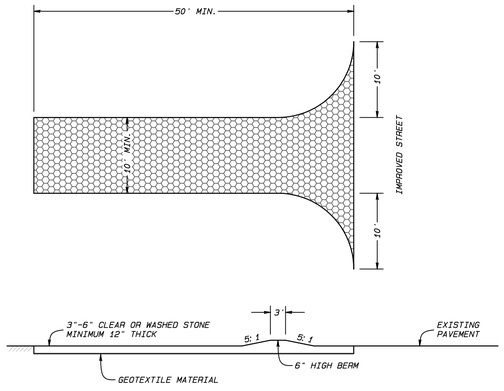
5. Clear and grub the site.
6. Begin grading the site.

PHASE 2

1. Temporarily seed denuded areas.
2. Install utilities, underdrains, storm sewers.
3. Install matting/rip-rap around outlet structures per detail.
4. Install inlet protection around indicated storm sewer inlets.
5. Stabilize all areas that are to be seeded and able to be brought to finished grade with seeding/mulch, sod, or approved equal.
6. Stabilize all areas that are to be paved and that are able to be brought to subgrade elevation with compacted base material.
7. Grade all possible areas while maintaining diversions and basins.
8. Stabilize all areas that are to be seeded and able to be brought to finished grade with seeding/mulch, sod, or approved equal.
9. Stabilize all areas that are to be paved and that are able to be brought to subgrade elevation with compacted base material.
10. Maintain 70% stabilization within disturbed areas.

PHASE 3

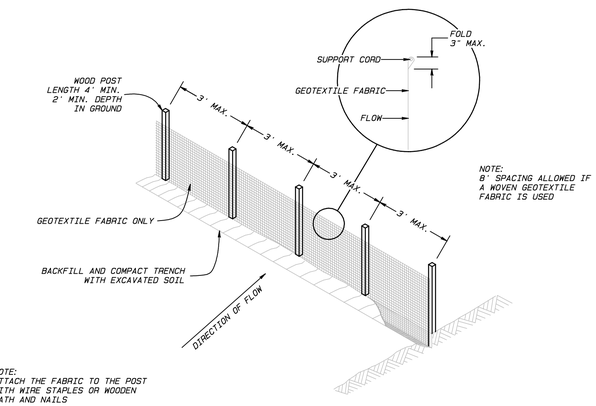
1. Backfill and stabilize diversions and swales.
2. Pave site.
3. Complete grading.
4. Remove all temporary erosion and sediment control devices (only if site is stablized).



NOTE: MAINTAIN THE ROCK ENTRANCE TO PREVENT TRACKING ONTO PAVEMENT

STONE TRACKING PAD

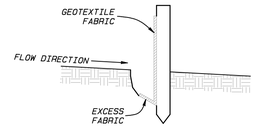
FOR MORE INFORMATION, SEE DNR BMP TECH STANDARD 1057



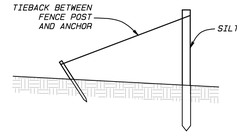
NOTE: 8' SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED

NOTE: ATTACH THE FABRIC TO THE POST WITH WIRE STAPLES OR WOODEN LATH AND NAILS

SILT FENCE



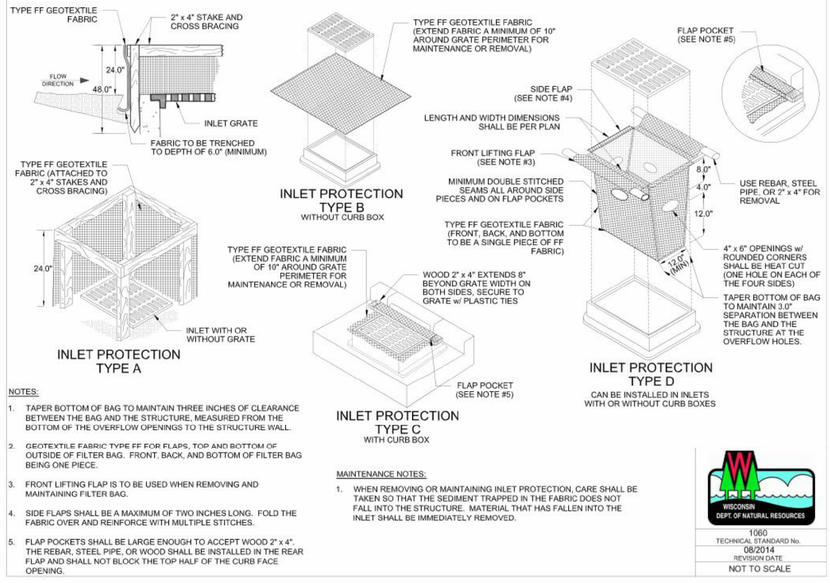
TRENCH DETAIL



SILT FENCE TIE BACK

WHEN REQUIRED BY ENGINEER

FIGURE 1. INLET PROTECTION TYPES A, B, C AND D



NOTES:

1. TAPER BOTTOM OF BAG TO MAINTAIN THREE INCHES OF CLEARANCE BETWEEN THE BAG AND THE STRUCTURE, MEASURED FROM THE BOTTOM OF THE OVERFLOW OPENINGS TO THE STRUCTURE WALL.
2. GEOTEXTILE FABRIC TYPE FF FOR FLAPS, TOP AND BOTTOM OF OUTSIDE OF FILTER BAG. FRONT, BACK, AND BOTTOM OF FILTER BAG BEING ONE PIECE.
3. FRONT LIFTING FLAP IS TO BE USED WHEN REMOVING AND MAINTAINING FILTER BAG.
4. SIDE FLAPS SHALL BE A MAXIMUM OF TWO INCHES LONG. FOLD THE FABRIC OVER AND REINFORCE WITH MULTIPLE STITCHES.
5. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2" x 4". THE REBAR, STEEL PIPE, OR WOOD SHALL BE INSTALLED IN THE REAR FLAP AND SHALL NOT BLOCK THE TOP HALF OF THE CURB FACE OPENING.

MAINTENANCE NOTES:

1. WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED IN THE FABRIC DOES NOT FALL INTO THE STRUCTURE. MATERIAL THAT HAS FALLEN INTO THE INLET SHALL BE IMMEDIATELY REMOVED.

WISCONSIN DEPT. OF NATURAL RESOURCES

1060
TECHNICAL STANDARD No.
08/2014
REVISION DATE
NOT TO SCALE

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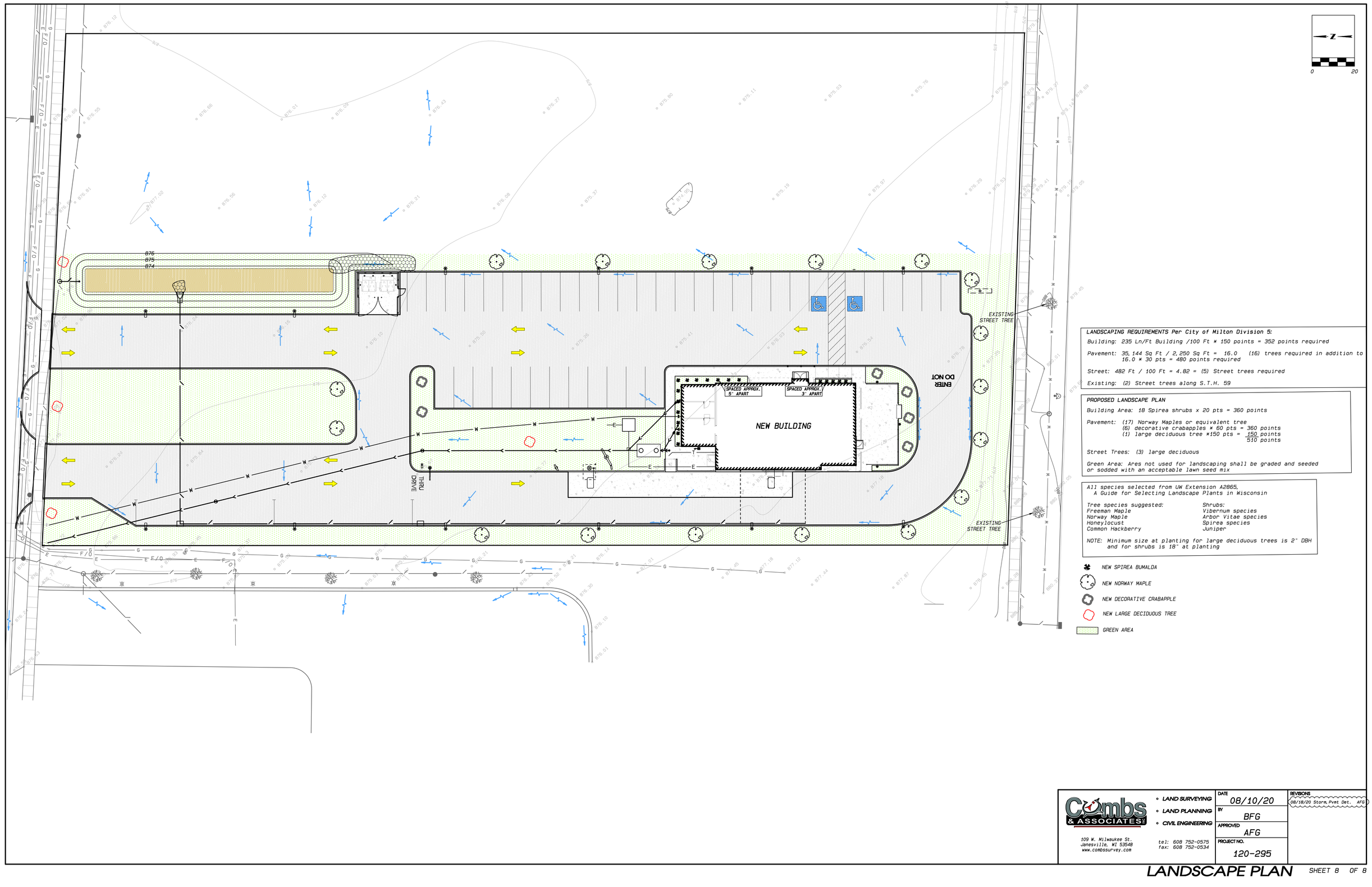

LANDSCAPING REQUIREMENTS Per City of Milton Division 5:

Building: 235 Ln/Ft Building /100 Ft * 150 points = 352 points required

Pavement: 35,144 Sq Ft / 2,250 Sq Ft = 16.0 (16) trees required in addition to 16.0 * 30 pts = 480 points required

Street: 482 Ft / 100 Ft = 4.82 = (5) Street trees required

Existing: (2) Street trees along S.T.H. 59

PROPOSED LANDSCAPE PLAN

Building Area: 18 Spirea shrubs x 20 pts = 360 points

Pavement: (17) Norway Maples or equivalent tree
(6) decorative crabapples * 60 pts = 360 points
(1) large deciduous tree *150 pts = 150 points
510 points

Street Trees: (3) large deciduous

Green Area: Ares not used for landscaping shall be graded and seeded or sodded with an acceptable lawn seed mix

All species selected from UW Extension A2865, A Guide for Selecting Landscape Plants in Wisconsin

Tree species suggested:
Freeman Maple
Norway Maple
Honeylocust
Common Hackberry

Shrubs:
Vibernum species
Arbor Vitae species
Spirea species
Juniper

NOTE: Minimum size at planting for large deciduous trees is 2" DBH and for shrubs is 18" at planting

- NEW SPIREA BUMALDA
- NEW NORWAY MAPLE
- NEW DECORATIVE CRABAPPLE
- NEW LARGE DECIDUOUS TREE
- GREEN AREA

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LANDSCAPE PLAN